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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

11/04/2008

OLIFF & BERRIDGE, PLC
P.O. BOX 320850
ALEXANDRIA, VA 22320-4850

EXAMINER

PRABHAKHER, PRITHAM DAVID

ART UNIT

PAPER NUMBER

2622

DATE MAILED: 11/04/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,090	02/13/2004	Toshimi Watanabe	118659	5331

TITLE OF INVENTION: AUTOFOCUS CAMERA CAPABLE OF CALCULATING A FOCUS MATCH STATE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE** OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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10/777,090	02/13/2004	Toshimi Watanabe	118659	5331

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nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/04/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
PRABHAKHER, PRITHAM DAVID	2622	348-354000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____
Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850			PRABHAKHER, PRITHAM DAVID	
			ART UNIT	PAPER NUMBER
			2622	

DATE MAILED: 11/04/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 661 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 661 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability**Application No.**

10/777,090

Applicant(s)

WATANABE, TOSHIMI

Examiner

PRITHAM PRABHAKHER

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to claims filed on 10/14/2008.
2. ☒ The allowed claim(s) is/are 2-19.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 02/13/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Allowable Subject Matter

Claims 2-19 are allowed.

The following is an examiner's statement of reasons for allowance:

In regard to independent **Claim 2**, the closest prior art of record fails to teach or reasonably suggest, "A camera comprising:

an image-capturing element that captures a subject image through a photographic lens;

a first filter device that removes a frequency component equal to or lower than a first frequency from image-capturing signals obtained at pixels corresponding to a focus area of the image-capturing element;

a second filter device that removes from the image-capturing signals a frequency component equal to or lower than a second frequency which is higher than the first frequency;

a lens drive signal generation device that generates a lens drive signal used to move a focus lens;

an evaluation value calculation device that calculates integrating values of first image-capturing signals from which the frequency component has been removed at the first filter device and integrating values of second image-capturing signals from which the frequency component has been removed at the second filter device, each in correspondence to a predefined position of the focus lens;

a lens position calculation device that calculates a focus match lens position based upon one of a set of the integrating values of the first image-capturing signals and a set of the integrating values of the second image-capturing signals calculated by the evaluation value calculation device; and

a determination device that makes a true/false decision with regard to a focus match position, calculated by the lens position calculation device, based upon a change manifested by the integrating values of the first image-capturing signals and a change manifested by the integrating values of the second image-capturing signals between predefined positions taken by the focus lens, wherein:

the determination device determines that the focus match position calculated by the lens position calculation device is a true focus match position when a ratio between: (a) the change manifested by the integrating values of the first image-capturing signals between a first lens position corresponding to a largest value among the integrating values of the first image-capturing signals and a second lens position next to the first lens position and (b) the change manifested by the integrating values of the second image-capturing signals between the first lens position and the second lens position is equal to or greater than a preset determination threshold value.

Regarding dependent **Claim 5**, this claim is allowed because it depends on allowed independent claim 2.

In regard to independent **Claim 3**, the closest prior art of record fails to teach or reasonably suggest, "A camera comprising:

an image-capturing element that captures a subject image through a photographic lens;

a first filter device that removes a frequency component equal to or lower than a first frequency from image-capturing signals obtained at pixels corresponding to a focus area of the image-capturing element;

a second filter device that removes from the image-capturing signals a frequency component equal to or lower than a second frequency which is higher than the first frequency;

a lens drive signal generation device that generates a lens drive signal used to move a focus lens;

an evaluation value calculation device that calculates integrating values of first image-capturing signals from which the frequency component has been removed at the first filter device and integrating values of second image-capturing signals from which the frequency component has been removed at the second filter device, each in correspondence to a predefined position of the focus lens;

a lens position calculation device that calculates a focus match lens position based upon one of a set of the integrating values of the first image-capturing signals and a set of the integrating values of the second image-capturing signals calculated by the evaluation value calculation device; and

a determination device that makes a true/false decision with regard to a focus match position, calculated by the lens position calculation device, based upon a change manifested by the integrating values of the first image-capturing signals and a change manifested by the integrating values of the second image-capturing signals between predefined positions taken by the focus lens, wherein:

the determination device determines that the focus match position calculated by the lens position calculation device is a true focus match position when (A) the change manifested by the integrating values of the first image-capturing signals between a first lens position corresponding to a largest value among the integrating values of the first image-capturing signals and a second lens position next to the first lens position indicates a value equal to or greater than a predetermined value and (B) a ratio of the change manifested by the integrating values of the first image-capturing signals between the first lens position and the second lens position and the change manifested by the integrating values of the second image-capturing signals between the first lens position and the second lens position is equal to or greater than a preset determination threshold value."

Regarding dependent **Claim 6**, this claim is allowed because it depends on allowed independent claim 3.

In regard to independent **Claim 4**, the closest prior art of record fails to teach or reasonably suggest, "A camera comprising:

an image-capturing element that captures a subject image through a photographic lens;

a first filter device that removes a frequency component equal to or lower than a first frequency from image-capturing signals obtained at pixels corresponding to a focus area of the image-capturing element;

a second filter device that removes from the image-capturing signals a frequency component equal to or lower than a second frequency which is higher than the first frequency;

a lens drive signal generation device that generates a lens drive signal used to move a focus lens;

an evaluation value calculation device that calculates integrating values of first image-capturing signals from which the frequency component has been removed at the first filter device and integrating values of second image-capturing signals from which the frequency component has been removed at the second filter device, each in correspondence to a predefined position of the focus lens;

a lens position calculation device that calculates a focus match lens position based upon one of a set of the integrating values of the first image-capturing signals and a set of the integrating values of the second image-capturing signals calculated by the evaluation value calculation device; and

a determination device that makes a true/false decision with regard to a focus match position, calculated by the lens position calculation device, based upon a change manifested by the integrating values of the first image-capturing signals and a change manifested by the integrating values of the second image-capturing signals between predefined positions taken by the focus lens, wherein:

the determination device judges that the focus match position calculated by the lens position calculation device is a false focus match position when (1) the change manifested by the integrating values of the first image-capturing signals between a first lens position corresponding to a largest value among the integrating values of the first image-capturing signals and a second lens position next to the first lens position indicates a value smaller than a first predetermined value and (2) the change manifested by the integrating values of the first image-capturing signals between the second lens position and a third lens position next to the second lens position indicates a value smaller than a second predetermined value which is greater than the first predetermined value."

Regarding dependent **Claim 7**, this claim is allowed because it depends on allowed independent claim 4.

In regard to independent **Claim 8**, the closest prior art of record fails to teach or reasonably suggest the combination of the limitations of claim 8 that include "**the**

controller determines that the focus match position, calculated by the second calculator is a true focus match position when a ratio between; (a) the change manifested by the integrating values of the first image-capturing signals between a first lens position corresponding to a largest value among the integrating values of the first image-capturing signals and a second lens position next to the first lens position and (b) the change manifested by the integrating values of the second image-capturing signals between the first lens position and the second lens position is equal to or greater than a preset determination threshold value."

Regarding dependent **Claim 11**, this claim is allowed because it depends on allowed independent claim 11.

With regard to independent **Claim 9**, the closest prior art of record fails to teach or reasonably suggest the combination of the limitations of claim 9 that include "the controller determines that the focus match position calculated by the lens position calculation device is a true focus match position when (A) the change manifested by the integrating values of the first image-capturing signals between a first lens position corresponding to a largest value among the integrating values of the first image-capturing signals and a second lens position next to the first lens position indicates a value equal to or greater than a predetermined value and (B) a ratio of the change manifested by the integrating values of the first image-capturing signals between the first lens position and the second lens

position and the change manifested by the integrating values of the second image-capturing signals between the first lens position and the second lens position is equal to or greater than a preset determination threshold value."

In regard to dependent **Claim 12**, this claim is allowed because it depends on allowed independent claim 9.

Regarding independent **Claim 10**, the closest prior art of record fails to teach or reasonably suggest the combination of the limitations of claim 10 that include "**the controller judges that the focus match position calculated by the second calculator is a false focus match position when (1) the change manifested by the integrating values of the first image-capturing signals between a first lens position corresponding to a largest value among the integrating values of the first image-capturing signals and a second lens position next to the first lens position indicates a value smaller than a first predetermined value and (2) the change manifested by the integrating values of the first image-capturing signals between the second lens position and a third lens position next to the second lens position indicates a value smaller than a second predetermined value which is greater than the first predetermined value."**

In regard to dependent **Claim 13**, this claim is allowed because it depends on allowed independent claim 10.

With regard to independent **Claim 14**, the closest prior art of record fails to teach or reasonably suggest the combination of the limitations of claim 14 that include **"determining that the focus match position is a true focus match position when a ratio between: (a) the change manifested by the integrating values of the first image-capturing signals between a first lens position corresponding to a largest value among the integrating values of the first image-capturing signals and a second lens position next to the first lens position and (b) the change manifested by the integrating values of the second image-capturing signals between the first lens position and the second lens position is equal to or greater than a preset determination threshold value."**

In regard to dependent **Claim 17**, this claim is allowed because it depends on allowed independent claim 14.

Regarding independent **Claim 15**, the closest prior art of record fails to teach or reasonably suggest the combination of the limitations of claim 15 that include **"determining that the focus match position is a true focus match position when (A) the change manifested by the integrating values of the first image-capturing signals between a first lens position corresponding to a largest value among the integrating values of the first image-capturing signals and a second lens position next to the first lens position indicates a value equal to or greater than a**

predetermined value and (B) a ratio of the change manifested by the integrating values of the first image-capturing signals between the first lens position and the second lens position and the change manifested by the integrating values of the second image-capturing signals between the first lens position and the second lens position is equal to or greater than a preset determination threshold value."

In regard to dependent **Claim 18**, this claim is allowed because it depends on allowed independent claim 15.

With regard to **Claim 16**, the closest prior art of record fails to teach or reasonably suggest the combination of the limitations of claim 16 that include "determining that the focus match position is a false focus match position when (1) the change manifested by the integrating values of the first image-capturing signals between a first lens position corresponding to a largest value among the integrating values of the first image-capturing signals and a second lens position next to the first lens position indicates a value smaller than a first predetermined value and (2) the change manifested by the integrating values of the first image-capturing signals between the second lens position and a third lens position next to the second lens position indicates a value smaller than a second predetermined value which is greater than the first predetermined value."

In regard to dependent **Claim 19**, this claim is allowed because it depends on allowed independent claim 16.

The following is the closest reference found:

Chubachi (US Patent No.: 6700618B1) discloses a focus point detecting apparatus that comprises a HPF which extracts a high-frequency component from a picked-up image, and an ABS circuit which obtains an absolute value of the outputs of the HPF. A base clipping circuit removes a component equal to or less than a first threshold value from the output of the ABS circuit, and an another base clipping circuit removes a component equal to or less than a second threshold value which is larger than the first threshold value from the output of the ABS circuit. An integrator integrates the output of one of the base clipping circuits and an another integrator integrates the output of the other base clipping circuit. Finally, a computing circuit detects a focus point according to the integrated values in the two integrators. Therefore, focus point can be detected with higher precision.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PRITHAM PRABHAKHER whose telephone number is (571)270-1128. The examiner can normally be reached on M-F (7:30-5:00) Alt Friday's Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571)272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David L. Ometz/
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